Annual Report 2007



Distribution Sector

Company Name:
Gas STAR Contact:
Title:
Address:
City, State, Zip Code:
Telephone:
Fax:
E-mail:

Company Information

Annual Report Summary

		BMP 1: Directed inspection and maintenance at gate stations and surface facilities BMP 2: Identify and rehabilitate leaky distribution pipes Partner Reported Opportunities (please specify):			
Period covered by report:	From:	To:			
Signature:		Date:			

- Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.
- In addition to reporting methane emissions reductions, you are welcome to include other information about your company's participation in Natural Gas STAR in the "Additional Program Accomplishments" section of this form. The Natural Gas STAR Program will use any information entered in this section to recognize the efforts and accomplishments of outstanding partners.



OMB Control No. 2060-0328

BMP 1: Directed inspection and maintenance at gate stations and surface facilities

Current Year Activities						
A. Facility/location identifier information: (Note: Please use a separate page for each facility surveyed)						
B. Leak summary: Number of surveys conducted at thi facility for reporting period		Total number o	of leaks	leaks repaired		
Total number of leaks found:	leaks	leaks found				
C. Cost summary: Total cost of surveys conducted:	\$	Total cost of le	ak repairs: \$ _			
D. Methane emissions reduction:	Mcf	* BMP 1 must be survey activity.	e reported on an annual ba	asis according to actual		
Please identify the basis for t	he emissions reduction	estimate, using the s	pace provided to show	v any calculations		
Actual field measurement	Actual field measurement					
☐ Calculation using default*						
Methane emissions reduction = Average (1,700 Mcf) \times Reduction efficiency (70						
* Important note: The default value is to be used only for aboveground, high-pressure (>300 psig) inlet facilities at which the guidelines outlined in EPA's Lessons Learned: Directed Inspection and Maintenance at Gate Stations and Surface Facilities have been applied. In addition, partners should only report reductions once per year per facility <u>and</u> should verify that the default value is used only at facilities where leak repairs were performed.						
E. Total value of gas saved: \$ F. Do you plan to survey						
Total value of gas saved = Methane emissions reduction (in Mcf) x Gas value (in \$/Mcf) [If not known, use default of \$7.00/Mcf] this facility/location next year? (Yes/No)						
Previous Years' Activities						
Use the table below to report any past activities implemented, but not previously reported to the Natural Gas STAR Program						
Year	Total Cost of Surveys (\$)	Total Cost of Repairs (\$)	Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)		

BMP 1 Comments: Please use the back of the page for additional space if needed.



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BMP 2: Identify and rehabilitate leaky distribution pipes

Current Year Activities							
A. Facility/location identifier in	formation:						
B. Replacement summary: Miles of distribution pipe replaced: miles Total cost of pipe replacement: \$			C. Leak summary: Total number of leaks repaired (excluding pipe replacement): leaks repaired Total cost of leak repairs: \$				
D. Methane emissions reduction: Mcf			* BMP 2 must be reported on an annual basis.				
Please identify the basis fo	or the emissio	ns reduction e	estimate, using th	ne space provide	d to show an	y calculations	
Actual field measurement Calculation using default (Miles replaced x Leak rate conversion factor (Mcf/mi) = Methane emissions reduction)							
Time of Direc Devices of	A 4:1	Main Replacem			rvices Replacer		
Type of Pipe Replaced	Miles Replaced	Leak Rate Conversion (Mcf/mi)	Emissions Reduction	Miles Replaced	Leak Rate Conversion (Mcf/mi)	Emissions Reduction	
Cast Iron	miles	239	Mcf				
Protected Steel	miles	3	Mcf	miles	0.2	Mcf	
Unprotected Steel	miles	110	Mcf	miles	1.7	Mcf	
Plastic	miles	12	Mcf	miles	0.1	Mcf	
Copper		00	14-5	miles	0.3	Mcf	
Not Available (Average) Totals:	miles miles	29	Mcf Mcf	miles	0.3	Mcf Mcf	
			10101		<u> </u>		
Other (please specify): For assistance quantifying the methane emission reductions achieved by BMP 2, please refer to the Gas STAR Emission Reduction Quantification Reference Guide, available on the Gas STAR Web site at: epa.gov/gasstar/docs/quantifying_ngs_methane_reductions.xls.							
E. Total value of gas saved: Total value of gas saved = Methane emissions reduction (in Mcf) × Gas value (in \$/Mcf) [If not known, use default of \$7.00/Mcf]		F. How many miles of pipe do you plan to replace next year? miles			niles		
Previous Years' Activities							

Use the table below to report any past activities implemented, but <u>not previously reported</u> to the Natural Gas STAR Program

Year	# Miles of Pipe Replaced	Total Cost of Replacements (\$)	# of Leaks Repaired	Total Cost of Repairs (\$)	Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)



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Partner Reported Opportunities (PROs)

(For more details on PROs, visit epa.gov/gasstar/techprac.htm)

Current Year Activities						
A. Facility/location identifier information:						
B. Activity description: Please provide a separate PRO reporting form for <u>each</u> activity reported. If reporting a DI&M activity, please use a separate page for each location/facility surveyed.						
Please specify the technology or practice that was implemented (choose from the list in the appendix or describe your own):			Please describe how your company implemented this activity:			
C. Level of Implementation (check one): Number of units installed: Frequency of practice: units times/year			D. Are emissions reductions a one-year reduction or a multi-year reduction? One-year Multi-year If Multi-year: Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration*. Partner will report this activity annually up to allowed sunset date.			
E. Methane emissions reduction: Mcf			F. Cost summary: Estimated cost of implementing this practice/activity (including equipment and labor): \$			
Please identify the basis for the emissions reduction estimate provided, using the space provided to show any calculations						
☐ Actual field measurement ☐ Other (please specify):						
☐ Calculation using manufacturer specifications/other source						
For assistance quantifying the methane emission reductions achieved by a particular technology or practice, please refer to the Gas STAR Emission Reduction Quantification Reference Guide, available on the Gas STAR Web site at: epa.gov/gasstar/docs/quantifying_ngs_methane_reductions.xls.						
G. Total value of gas saved: \$			H. To what extent do you expect to implement this			
Total value of gas saved = Methane emissions reduction (in Mcf) x Gas value (in \$/Mcf) [If not known, use default of \$7.00/Mcf]						
Previous Years' Activities						
Use the table below to report any past implementation of this PRO, but not previously reported to Natural Gas STAR						
Year	Year Frequency of Total Cost of Practice/ Practice/Activity or # (incl. equipment and la of Installations			Estimated Reductions (Mcf/yr)	Value of Gas Saved (\$)	

PRO Comments: Please use the back of the page for additional space if needed.

^{*} Because the implementation of some technologies reduces emissions for multiple years, Gas STAR allows certain activities to count towards a company's emission reductions beyond the initial year of implementation. Gas STAR designates the maximum length of time that these reductions may accrue as "sunset dates." The Appendix lists these sunset dates. Companies can report the corresponding methane emission reductions each year up to the allowable sunset date. Or, companies may wish to report reductions only once for the implementation year, and have EPA automatically apply the sunset date and count those emissions for the allowable number of years.



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Additional Program Accomplishments

The Natural Gas STAR Program will use any information entered here to recognize the efforts and achievements of outstanding partners.

Please include any additional information you would like to share about your company's participation in Natural Gas STAR. Examples may include:

- Activities to strengthen your program (e.g., training/education, innovative technologies or activities, pilot projects, employee incentive programs).
- Efforts to communicate your participation and successes (e.g., internal newsletters, press releases, company Web site).
- Participation in Natural Gas STAR program activities (e.g., contributions to case studies, presentation at annual workshop).

Additional Accomplishments:

Additional Accomplishments Comments: Please use the back of the page for additional space if needed.



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Appendix

Methane Emission Reduction Technologies & Practices— Distribution Sector

The list below describes a variety of methane emission reduction technologies that Natural Gas STAR partners in the distribution sector have implemented and reported to Natural Gas STAR. You may use this list as a guide when completing your annual report. Sunset dates (i.e. the length of time a technology or practice can continue to accrue emission reductions after implemented) are one year in duration unless otherwise noted in parentheses. An asterisk (*) indicates that a technical document related to the technology or practice is available online at epa.gov/gasstar/techprac.htm.

Compressors/Engines

- Eliminate unnecessary equipment and/or systems*
- Install electric starters (10 years)*
- Redesign blowdown systems and alter ESD practices*
- Reduce the frequency of engine starts with gas*
- Reducing methane emissions from compressor rod packing systems*
- Replace ignition reduce false starts*

Directed Inspection and Maintenance

- DI&M at compressor stations (non-mainline transmission)
- DI&M: survey and repair leaks
- Improve measurement systems to track gas loss
- Increase walking survey from a 5-to 3-year basis*

Pipelines

- Inject blowdown gas into low pressure mains*
- Insert gas main flexible liners (10 years)*
- Reduce/downgrade system pressure
- Use no-blow insertion fittings
- Using hot taps for in-service pipeline connections*
- Using pipeline pumpdown techniques to lower gas line pressure before maintenance*

Pneumatics/Controls

- Convert gas pneumatic controls to instrument air (10 vears)*
- Convert gas-driven chemical pumps to instrument air (10 vears)*

Valves

- Install excess flow valves (10 years)*
- Install overpressure protection system (10 years)
- Test and repair pressure safety valves*
- Test gate station pressure relief valves with nitrogen*

Other

- Improve system design/operation
- Install flares (10 years)*
- Re-inject CNG cylinder test gas
- Retighten LNG pumps seals
- Use automated systems to reduce pressure

The public reporting and recordkeeping burden for this collection of information is estimated to average 60 hours for each new response and 27 hours for subsequent responses. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address